

FORM PTO-1449
U.S. DEPARTMENT OF
COMMERCE PATENT AND
TRADEMARK OFFICE

ATTY. DOCKET NO.
3856-4006

SERIAL NO. TBA

APPLICANT
Mayer et al

FILING DATE
June 15, 2001

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11046 U.S. PTO
09/880881
06/15/01

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>[Signature]</i>	2,770,569	11/13/56	Fromherz et al.	167	65	10/15/52
<i>[Signature]</i>	4,126,684	11/21/78	Robson et al.	424	254	12/8/76
<i>[Signature]</i>	4,316,888	02/23/82	Nelson	424	127	03/15/80
<i>[Signature]</i>	4,362,870	12/07/82	Portoghese	542	403	03/19/81
<i>[Signature]</i>	4,416,871	11/22/83	Walter et al.	424	177	01/11/82
<i>[Signature]</i>	4,446,140	05/01/84	Nelson	424	260	03/29/82
<i>[Signature]</i>	4,464,378	08/07/84	Hussain	424	260	03/28/81
<i>[Signature]</i>	4,476,141	10/09/84	Cormier	424	321	10/27/83

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Papers, Etc.)

<i>[Signature]</i>	Adams et al., "Emergency Intravenous Sedation of the Delirious, Medically Ill Patient," <u>J. Clin. Psychiatry</u> , 49:12 Suppl., pp. 23-27 (1988).
<i>[Signature]</i>	Ben-Eliyahu et al., "The NMDA receptor antagonist MK-801 prevents long-lasting non-associative morphine tolerance in the rat," <u>Brain Research</u> , vol. 575, pp. 304-308 (1991).
<i>[Signature]</i>	Bristow et al., "Subcutaneous ketamine analgesia: postoperative analgesia using subcutaneous infusions of ketamine and morphine," <u>Annals of the Royal College of Surgeons of England</u> , vol. 71 (1989).
<i>[Signature]</i>	Chapman et al., "The Combination of NMDA Antagonism and Morphine Produces Profound Antinociception in the Rat Dorsal Horn," <u>Brain Research</u> , vol. 573, pp. 321-323 (1991).
<i>[Signature]</i>	Dickenson et al., "Dextromethorphan and Levorphanol on Dorsal Horn Nociceptive Neurones in the Rat," <u>Neuropharmacology</u> , vol. 30, No. 12A, pp. 1303-1308 (1991).

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<i>R</i>	4,602,909	07/29/86	Csillik	604	20	02/07/83
<i>R</i>	4,758,559	07/19/88	Wasley	514	211	02/21/86
<i>R</i>	4,769,372	09/06/88	Kreek	514	282	09/06/88
<i>R</i>	4,785,000	11/15/88	Kreek et al.	514	282	11/15/88
<i>R</i>	4,788,055	11/29/88	Fischer et al.	424	79	11/29/88
<i>R</i>	4,806,543	02/21/89	Choi	514	464	02/21/89
<i>R</i>	4,816,264	03/28/89	Phillips	424	468	03/28/89
<i>R</i>	4,816,450	03/28/89	Bell et al.	514	25	03/28/89

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<i>R</i>	<input checked="" type="checkbox"/>	Hayley et al., "Evidence for spinal N-Methyl-D-aspartate receptor involvement in prolonged chemical nociception in the rat," <u>Brain Research</u> , vol. 518, pp. 218-226 (1989).
<i>R</i>	<input checked="" type="checkbox"/>	Hayes et al., "Pretreatment with gangliosides reduces abnormal nociceptive responses associated with a rodent peripheral mononeuropathy," <u>Pain</u> , vol. 48, pp. 391-396 (1992).
<i>R</i>	<input checked="" type="checkbox"/>	Itzhak et al. "Sensitization to the Toxic Effects of Cocaine in Mice is Associated with the Regulation of N-Methyl-D-Aspartate Receptors in the Cortex", <u>The Journal of Pharmacology and Experimental Therapeutics</u> , vol. 262, No. 2, pp. 464-470 (1992).
<i>R</i>	<input checked="" type="checkbox"/>	Kamei et al., "Subsensitivity to the Cough-Depressant Effects of Opioid and Nonopioid Antitussives in Morphine-Dependent Rats: Relationship to Central Serotonin Function," <u>Pharmacology Biochemistry & Behavior</u> , Vol. 34, pp. 595-598 (1988).
<i>R</i>	<input checked="" type="checkbox"/>	Kanamaru et al., "Ketamine infusion for Control of Pain in Patients with Advanced Cancer," pp. 1368-1371 (1990) (see English translation of abstract).

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<i>[Signature]</i>	4,828,836	05/09/89	Elger et al.	424	419	05/19/87
<i>[Signature]</i>	4,834,965	05/30/89	Martani et al.	424	419	11/12/87
<i>[Signature]</i>	4,834,985	05/30/89	Elger et al.	424	488	05/19/87
<i>[Signature]</i>	4,876,276	10/24/89	Mechoulam et al.	514	454	10/26/87
<i>[Signature]</i>	4,888,347	12/19/89	Woodruff et al.	514	289	12/24/86
<i>[Signature]</i>	4,906,779	03/06/90	Weber et al.	564	238	08/29/88
<i>[Signature]</i>	4,912,114	03/27/90	Revesz	514	282	04/14/89
<i>[Signature]</i>	4,919,916	04/24/90	Golwyn	424	10	11/21/88
<i>[Signature]</i>	4,924,008	05/08/90	Abou-Gharbia et al.	849	75	05/04/89
<i>[Signature]</i>	4,937,232	06/26/90	Bell et al.	514	26	05/17/88

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<i>[Signature]</i>	Koyunchoglu et al., "The treatment of heroin addicts with dextromethorphan: A double-blind comparison of dextromethorphan with Chlorpromazine," <u>International Journal of clinical Pharmacology, Therapy and Toxicology</u> , vol. 28, No. 4 pp. 147-152 (1990).
<i>[Signature]</i>	Koyuncuoglu et al., "Suppression by Ketamine and Dextromethorphan of Precipitated Abstinence Syndrome in Rats," <u>Pharmacology Biochemistry & Behavior</u> , vol. 35, pp. 829-832 (1990).
<i>[Signature]</i>	Koyuncuoglu et al., "Previous Chronic Blockade of NMDA Receptors Intensifies Morphine Dependence in Rats," <u>Pharmacology Biochemistry & Behavior</u> , Vol. 39, pp. 575-579 (1991).
<i>[Signature]</i>	Koyuncuoglu et al., "Suppression by Ketamine and Dextromethorphan of Precipitated Abstinence Syndrome in Rats", <u>Pharmacology Biochemistry and Behavior</u> , vol. 35, No. 4, pp. 829-832 (1990).
<i>[Signature]</i>	Koyuncuoglu et al., " Effects of MK 801 on Morphine Physical Dependence: Attenuation and Intensification," <u>Pharmacology Biochemistry & Behavior</u> , vol. 43, pp. 487-490 (1992).

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








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

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	4,942,182	07/17/90	Weiss et al.	514	812	03/01/89
	4,959,493	09/25/90	Ohfume et al.	562	506	04/22/88
	4,975,430	12/04/90	Jahr et al.	514	255	06/16/89
	4,990,519	02/05/91	Jones et al.	514	314	02/23/90
	4,994,446	02/19/91	Sokolovsky et al.	514	75	01/03/89
	4,994,467	02/19/91	Zimmerman	514	284	05/31/89
	4,996,047	02/26/91	Kelleher	424	79	11/02/88
	5,006,510	04/09/91	Ellis	514	16	06/20/89
	5,013,540	05/07/91	Redburn	424	10	11/30/89
	5,023,239	06/11/91	Ogura et al.	514	26	01/07/87

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						YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Papers, Etc.)

		Mao et al., "Intrathecal MK-801 and local nerve anesthesia synergistically reduce nociceptive behaviors in rats with experimental peripheral mononeuropathy," <u>Brain Research</u> , vol. 576, pp. 254-262 (1992).
		Mao et al., "Post-injury treatment with GM1 ganglioside reduces nociceptive behaviors and spinal cord metabolic activity in rats with experimental peripheral mononeuropathy," <u>Brain Research</u> , vol. 584, pp. 18-27 (1992).
		Mao et al., "Intrathecal GM1 ganglioside and local ganglioside and local nerve anesthesia reduce nociceptive behaviors in rats with experimental peripheral mononeuropathy," <u>Brain Research</u> , vol. 584, pp. 28-35 (1992).
		Mao et al., "Pain-related increases in spinal cord membrane-bound protein kinase C following peripheral nerve injury," <u>Brain Research</u> , vol. 588, pp. 144-149 (1992).

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	5,028,611	07/02/91	Halikas	514	277	06/29/89
	5,028,707	07/02/91	Nichols et al.	546	156	11/20/89
	5,034,395	07/23/91	Tamada et al.	514	277	02/24/87
	5,034,400	07/23/91	Olney	514	315	10/20/89
	5,041,446	08/20/91	Silvestrini	514	255	06/06/89
	5,047,229	09/10/91	Nahas et al.	424	10	12/17/86
	5,051,426	09/24/91	Parnell	514	419	03/27/90
	5,051,442	09/24/91	Salituro et al.	514	381	04/25/90
	5,055,481	10/08/91	Inukai et al.	514	282	03/22/90
	5,057,519	10/15/91	Suberg	514	114	06/11/90
	5,068,228	11/26/91	Kohler	424	497	08/11/88
	5,071,646	12/10/91	Malkowska	514	464	11/09/89

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		Marek et al., "Excitatory amino acid antagonists (kynurenic acid and MK-801) attenuate the development of morphine tolerance in the rat", <u>Brain Research</u> , vol. 547, pp. 77-81 (1991).
		Marek et al., "Delayed application of MK-801 attenuates development of morphine tolerance in rats," <u>Brain Research</u> , vol. 558, pp. 163-165 (1991).
		Mankowitz et al., "Epidural Ketamine," <u>SA Medical Journal</u> , vol. 20, pp. 441-442 (1982).

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<i>h</i>	5,075,341	12/24/91	Mendelson et al.	514	282	12/01/89
<i>h</i>	5,091,391	02/25/92	Aizenman et al.	514	311	08/16/90
<i>h</i>	5,093,129	03/03/92	Horovitz et al.	424	451	02/30/89
<i>h</i>	5,093,525	03/03/92	Weber et al.	564	338	03/03/92
<i>h</i>	5,095,009	03/10/92	Whitten et al.	514	85	03/10/92
<i>h</i>	5,106,847	04/21/92	Salituro et al.	514	232.5	04/21/92
<i>h</i>	5,109,017	04/28/92	Schmiesing et al.	514	438	04/28/92
<i>h</i>	5,118,675	06/02/92	Jirovsky et al.	514	80	06/02/92
<i>h</i>	5,124,319	06/23/92	Baudy et al.	514	80	06/23/92

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<i>h</i>	Oshima et al., "Continuous subcutaneous injection of ketamine for cancer pain," <u>Can. J. Anaesth.</u> , vol. 37:3, pp. 385-92. <i>C1994</i>
<i>h</i>	Pharma Projects, 1561 (May 1994).
<i>h</i>	Sadee, "Opiat-Rezeptoren und Endorphine," <u>Deutsche Apotheker-Zeitung</u> , vol. 119, p. 821 (1979).
<i>h</i>	Tanganelli et al., "Glutamate antagonists prevent morphine withdrawal in mice and guinea pigs," <u>Neuroscience-Letter</u> , vol. 122, pp. 270-272 (1991).
<i>h</i>	Trujillo et al., "Inhibition of Morphine Tolerance and Dependence by the NMDA Receptor Antagonist MK-801," <u>Science</u> , vol. 251, pp. 85-87 (1991).

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<i>W</i>	5,124,340	06/23/92	Jaffe et al.	514	356	06/28/89
<i>V</i>	5,126,330	06/30/92	Ogura et al.	514	26	02/01/91
<i>K</i>	5,133,974	07/28/92	Paradissis	424	480	02/24/90
<i>P</i>	5,137,889	08/11/92	Tamada et al.	514	252	04/23/91
<i>R</i>	5,137,919	08/11/92	Igarashi et al.	514	642	12/31/90
<i>H</i>	5,141,957	08/25/92	Jiang et al.	514	510	11/05/90
<i>H</i>	5,145,842	09/08/92	Driedger et al.	514	63	007/30/90
<i>K</i>	5,151,360	09/29/92	Handa et al.	435	240.2	07/02/91
<i>P</i>	5,166,207	11/24/92	Smith	514	270	06/17/91
<i>R</i>	5,171,752	12/15/92	Caldirola et al.	514	648	07/19/91

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<i>W</i>			Ventafridda et al., "Studies on the effects of antidepressant drugs on the antinociceptive action of morphine and on plasma morphine in rat and man," <u>Pain</u> , vol. 43, pp. 155-162 (1990).

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





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	5,183,807	02/02/93	della Valle et al.	514	25	06/28/91
	5,185,329	02/09/93	Gawin et al.	514	159	11/14/91
	5,190,925	03/02/93	dalla Valle et al.	424	25	02/03/92
	5,321,012	06/14/94	Mayer et al.	564	25	04/06/93
	5,352,683	10/04/94	Mayer et al.	514	289	03/05/93
	5,441,982	08/15/95	Itzhak	514	55	09/24/93
	5,654,281	08/05/97	Mayer et al.	514	25	04/26/95

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